

In the Claims:

1. (previously presented) A shunt for squib that fits into a socket opening in the surface of a housing of an inflator, concaving from the opening in a cylindrical form into the housing and having a fitting concave concaving from the inner circumferential face, in the middle of the depth direction, to the outer side of the radial direction, and short-circuits a pair of pins of a squib rising from the bottom of the socket,

the shunt comprising

a shunt body being formed into a cylinder to fit into the socket and being provided, at the center thereof, with a through connection hole into which the pair of pins of the squib enter from the bottom side and a female connector fits from the top side,

a short-circuit piece being provided to the shunt body to contact the pair of pins of the squib when the shunt body is fitted into the socket and to be pushed by the female connector to move away from the pair of pins of the squib when the female connector is fitted into the connection hole, and

a protrusion being formed of an elastic material and provided on the shunt body, and

the root end of the protrusion is provided on the outer face of the shunt body, the protrusion extends from the root end thereof in a direction tilting toward the outside from the shunt body at an angle within 90 degrees

27 to a direction being parallel to the central axis of the  
28 shunt body and heading toward the top thereof, and  
29 it is arranged that when the top end of the protrusion  
30 is pushed toward the connection hole of the shunt body, the  
31 protrusion will undergo deformation by bending, and when  
32 the shunt body fits into the socket, the protrusion will  
33 reconstitute to protrude in the fitting concave.

1 2. (previously presented) The shunt for squib as recited in  
2 claim 1,

3 wherein the shunt body is provided with an  
4 accommodating concave concaving from the outer  
5 circumferential face, the root end of the protrusion is  
6 provided in the accommodating concave, and it is arranged  
7 that when the top end of the protrusion is pushed toward  
8 the connection hole of the shunt body, the protrusion will  
9 undergo deformation by bending to shunt into the  
10 accommodating concave.

1 3. (previously presented) The shunt for squib as recited in  
2 claim 1,

3 wherein the top end of the protrusion is provided with  
4 a restraining face which contacts or faces toward the face  
5 closer to the opening of the socket among the faces  
6 constituting the fitting concave when the shunt body is  
7 fitted into the socket.

1 4. (previously presented) The shunt for squib as recited in  
2 claim 2,

3 wherein the top end of the protrusion is provided with  
4 a restraining face which contacts or faces toward the face  
5 closer to the opening of the socket among the faces  
6 constituting the fitting concave when the shunt body is  
7 fitted into the socket.

1 5. (previously presented) The shunt for squib as recited in  
2 claim 1,

3 wherein a stopper is protrusively provided on the  
4 inner side of the top end of the protrusion, the stopper  
5 contacts the socket inner circumferential face being closer  
6 to the opening of the socket than the fitting concave when  
7 the shunt body is fitted into the socket.

1 6. (previously presented) The shunt for squib as recited in  
2 claim 2,

3 wherein a stopper is protrusively provided on the  
4 inner side of the top end of the protrusion, the stopper  
5 contacts the socket inner circumferential face being closer  
6 to the opening of the socket than the fitting concave when  
7 the shunt body is fitted into the socket.

1 7. (previously presented) The shunt for squib as recited in  
2 claim 3,

3 wherein a stopper is protrusively provided on the  
4 inner side of the top end of the protrusion, the stopper

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5 contacts the socket inner circumferential face being closer  
6 to the opening of the socket than the fitting concave when  
7 the shunt body is fitted into the socket.

1 8. (previously presented) The shunt for squib as recited in  
2 claim 4,

3 wherein a stopper is protrusively provided on the  
4 inner side of the top end of the protrusion, the stopper  
5 contacts the socket inner circumferential face being closer  
6 to the opening of the socket than the fitting concave when  
7 the shunt body is fitted into the socket.

1 9. (previously presented) The shunt for squib as recited in  
2 claim 1,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 10. (previously presented) The shunt for squib as recited in  
2 claim 2,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

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1 11. (previously presented) The shunt for squib as recited in  
2 claim 3,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 12. (previously presented) The shunt for squib as recited in  
2 claim 4,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 13. (previously presented) The shunt for squib as recited in  
2 claim 5,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 14. (previously presented) The shunt for squib as recited in  
2 claim 6,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 15. (previously presented) The shunt for squib as recited in  
2 claim 7,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 16. (previously presented) The shunt for squib as recited in  
2 claim 8,

3 wherein a stopper is provided on the outer side of the  
4 top end of the protrusion, the stopper contacts the inner  
5 part of the fitting concave when the shunt body is fitted  
6 into the socket.

1 17. (new) A shunt for a squib adapted to fit into a socket  
2 opening of an inflator housing that has a concave recess in  
3 an inner circumferential wall bounding said socket opening,  
4 wherein said shunt comprises:

5 a shunt body configured to be inserted into said  
6 socket opening with a front end of said shunt body  
7 penetrating into said socket opening and a rear end of said  
8 shunt body facing out of said socket opening, and having a  
9 hole therein adapted to receive a female connector fitted  
10 therein; and

11 a protrusion formed of an elastic material and  
12 protruding radially outwardly away from said shunt body at  
13 an acute angle relative to a central axis of said shunt

body with a vertex of said acute angle oriented toward said front end of said shunt body;

wherein said protrusion is configured and arranged to be elastically deflected toward said central axis of said shunt body by contacting said inner circumferential wall as said shunt body is being inserted into said socket opening, and to reconstitute elastically outwardly to protrude and engage into said concave recess when insertion of said shunt body into said socket opening is completed.

18. (new) An electrical connection arrangement comprising:

a component having a socket recessed into an outer surface thereof, having a concave recess in an inner circumferential wall bounding said socket, and having two electrical contact pins located in said socket and protruding in a direction of a central axis of said arrangement from a socket floor of said socket toward said outer surface of said component;

a shunt comprising a shunt body that includes an annular wall which bounds a fitting hole therein, and that is dimensioned and shaped to be fitted into said socket with said pins protruding into said fitting hole, and further comprising an electrically conductive short-circuit piece which contacts and short-circuits said pins when said shunt body is fitted into said socket, and a protrusion formed of an elastic material and protruding radially outwardly away from said shunt body at an acute angle relative to said central axis with a vertex of said acute

19 angle oriented into said socket, wherein said protrusion is  
20 configured and arranged to be elastically deflected toward  
21 said central axis by contacting said inner circumferential  
22 wall as said shunt body is being inserted into said socket,  
23 and to reconstitute elastically outwardly to protrude and  
24 engage into said concave recess when insertion of said  
25 shunt body into said socket is completed; and

26 an electrical connector plug dimensioned and shaped to  
27 be plugged in said direction of said central axis into said  
28 fitting hole of said shunt body which is fitted into said  
29 socket, with said pins being received in an opening of said  
30 plug, and further including a configuration that is shaped  
31 and positioned to deflect said short-circuit piece out of  
32 electrical contact with at least one of said pins when said  
33 plug is plugged into said fitting hole.

[REMARKS CONTINUE ON NEXT PAGE]

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